# **Domestic Office Locations in China**

Region:	Province:	Address:			
Northeast Heilongjiang Province		Intersection of Republican Road and Shijiao Road, Hulan District, Harbin City,			
Region	Liaoning Province	113 Nanjing North Street, Heping District, Shenyang City, Liaoning Province			
	Shanghai				
	Zhejiang Province	No. 15, Lane 38, Caoli Road, Jinshan District, Shanghai			
	Jiangsu Province	Room 8609, 6th Floor, Building 3, JinJulong Building, No. 9 Gaohu Road, Jiangning District, Nanjing City, Jiangsu Province			
Eastern		Room 307, No. 58 Huyang Road, Hushuguan Town, Huqiu District, Suzhou City, Jiangsu Province			
China	Anhui Province	No.1 Heping Road, Development Zone, Chizhou City, Anhui Province			
	Shandong Province	1912, East Unit, Building 4, Lemeng Center, Huaiyin District, Jinan City, Shandong Province			
	Jiangxi Province	Guangzhou Road East China International Industrial Expo City, Qingyunpu District, Nanchang City Jiangxi Province			
	Fujian Province	G324 National Highway Qianjin Xijing Yili, Houxi Town, Jimei District, Xiamen City, Fujian Province			
	Beijing				
	Tianjin				
North	Shanxi Province	Room 1204, Building 10, Junyue International, Daxing District, Beijing			
China	Hebei Province				
	Inner Mongolia	Room 204, Unit 2, Building 11, Yurong Guandi, Shahe West Street, Jiuyuan District, Baotou City, Inner Mongolia Autonomous Region			
	Henan Province	No.39, 3rd Floor, Greenland Yuansheng International 3C, Jinshui District, Zhengzhou City, He Province			
Central China	Hubei Province	Room 1304, Unit 1, Building 16, Vision Cheng B, Jiangjun Road Street, Dongxihu District, Wuhan City, Hubei Province			
	Hunan Province	268 Wanjiali Road, Yuhua District, Changsha City, Hunan Province			
	Guangdong Province				
South China	Guangxi Province	Room 1504, Block B, Aoyuan Central Plaza, Jingang Avenue, Nansha District, Guangzhou City, Guangdong Province			
Orima	Taiwan Province	- Guangaong Frovince			
	Chongqing				
	Tibet	1801, Building 8, City Garden, Yubei District, Chongqing			
Southwest	Yunnan Province	Science and Technology Innovation Park, No. 3 Jingkai Road, Kunming Economic Development Zone			
of China	Guizhou Province	Building 2, Financial Street, Nanming District, Guiyang City, Guizhou Province			
	Sichuan Province	Building 9, Wanjingfeng Phase II, No. 8 Shangya Road, High tech West Zone, Chengdu City			
	Shanxi Province	Room 20707, Building 1, Lijun V, Fengcheng 1st Road and Weiyang Road, Weiyang District, Xi'an			
<u> </u>	Qinghai Province	City, Shaanxi Province			
Northwest of China	Gansu Province	Inside the Yongding Center Market in Anding District, Dingxi City, Gansu Province			
Oi Oillia	Ningxia Province	Building 4, South District of Helan Red River Valley, Yinchuan, Ningxia			
	Xinjiang UygurAutonomous Region	556 Beijing South Road, Xinshi District, Urumqi, Xinjiang			

# **GESO SYSTEMS**

#### **Shanghai Geso Systems Industrial PLC**

Address:No.15,Lane 38,Cao Li Road,Jinshan District,Shanghai,China

Website: www.gesosystems.net TEL: +86 21- 57895398

# **GESO SYSTEMS**

# Oil-injected Screw Air Compressor

Installed motor power 7.5-400 kw/10-530 hp





#### Single stage rotary screw air compressor

- . Single stage fixed frequency rotary screw air compressor
- . Single stage Variable frequency rotary screw air compressor

#### Two stage rotary screw air compressor

- . Ultra efficient energy-saving variable frequency air compressor
- . Two stage fixed frequency rotary screw air compressor
- . Two stage permanent magnet variable frequency rotary screw air compressor

P05 P09





GESO SYSTEMS





P15

P19



# **Company Profile**

#### Superior Quality and Intelligent Future

Geso is a global aerodynamic systems group of companies, wholly owned by BAE GESO SYSTEMS, headquartered in London, United Kingdom, and a leader in the European gases sector.

BAE Systems, the parent company of Geso Group, was founded in 1871 and is committed to the research, development and production of industrial gases. In 2002, BAE Systems set up a representative office in China, importing products from the United Kingdom to China and deploying after-sales service offices in China, and in 2018 BAE Systems established a wholly-owned company "Shanghai Geso systems Industrial PLC and invested 11 million U.S.dollars to build an intelligent production and manufacturing center. In



R&D,production and market expansion. Our products include energy-saving screw air compressors, nitrogen/oxygen generators, dry oil-free air compressors, water-injected oil-free air compressors, mobile air compressors, process gas compressors, medium and high pressure screw air ompressors, centrifugal air compressors, etc., which are widely used in various industrial production. The group has three companies, "Shanghai Geso systems Industry PLC", "Jiangsu Geso Equipment Co.Ltd.", "Shangahi Geso Energy Equipment Co.Ltd." more than 30 branches and offices and more than 200 distributors nationwide, providing high-quality intelligent and energy-saving air compressor system solutions for various industries energy-saving programs to reduce users'cost of use to ensure users'satisfaction and energy-saving effect. We have been selected as one of the top ten brands for three consecutive years by third-party organizations such as China Brand Network. As a global aerodynamic system.

GESO SYSTEMS

Inheriting the advanced technology and production management mode of BAE Systems and combining it with China's market demand in order to ensure the production safety of users, Geso Group strictly follows the product development process of the Group, and each new product undergoes 40 test items and 3,000 hours of durability test to ensure the quality of the products from the source. Selecting IE5 energy-saving motors, ABB electronic control system, and threestage frequengy conversion energy-saving system to reduce energy consumption and CO2 emissions, meanwhile, through the optimized design and lowering the speed of the machine, it saves the cost for the customers and realizes small investment and big power. Self-developed intelligent Internet of Things (IoT) technology realizes convenient interconnected management with air compressors through computers, cell phones and iPads to realize automatic and precise supply and meet the experience of unattended automation.

As a wholly foreign-owned enterprise, it is also the authorized production and assembly base of screw compressors for BAE Systems in UK. We have obtained 1SO9001 quality system certification, ISO45001 occupational health and safety management system certification, ISO14001 environmental management system certification, certificate 0 oil-free certification, EU CE certification, energy efficiency certification of air compressors, 3A integrity system certification and other certificates, which fully guarantee the safety of users.

Through years of high-speed development, Geso Group has service outlets in more than 200 cities across the country, 24-hour service hotline response and internet warranty service, and thirteen direct spare parts warehouses to provide customers with repair services in a more rapid and timely manner. After-sales service is not limited to the

product itself,but also includs compressed air system testing and optimization, air compressor intelligent air supply control, waste heat recovery, frequency conversion.energy-saving piping, cables, construction of turnkey projects and

a series of complete set of systematic services. Based on our service concept we promise lifelong We are exempt from labor charges, provide free training services for customers, regularly test the data of users' energy efficiency reports, and develop group of companies, we carry the mission of innovation, quality and service Whether it is energy saving and environmental protection or intelligent, always adhere to the praise of customer experience as the center of the hard working people. Geso, to build a globally recognized brand of fluid machinery, and continue to be the industry leader in high-end energysaving products.



01 02

# **GESO SYSTEMS**

# **Milestones**

#### 1871

The British head office was established as "BAE MARCONI ELETRONIC SYSTEMS",located in the United Kingdom.London,the same year the development and production of the first reciprocating compressor products,dedicated to the field of industrial gases research and development.

#### 1999

Established "BAE GESO SYSTEMS LTD" and developed the first twinscrew air compressor.GESO SYSTEMS was established as a brand name for shrinking machines.2000 The company developed and produced the first dry Type oil-free screw air compressor into the market,which was widely used in European medical treatment, Food,electronics industry.

#### 2002

BAE Group set up a representative office in China, products from the United Kingdom production after the original import of the whole machine equipment for the Chinese market. We have expanded and successfully entered the Chinese aerospace.

#### 2016

Established a warehousing and logistics center in Shanghai, China,to ensure the timely supply of complete machines and spare parts for the Chinese market.

#### 2021

Invested and established"Jiangsu Geso Equipment Co,Ltd."and set up a nitrogen/oxygen air separation equipment sales company in Suzhou,and in the same year,set up the second-phase annual output of 300 sets of nitrogen/oxygen equipment in the Shanghai factory,and set up the R&D and production of nitrogen/oxygen control and separation equipment.In the same year,we set up the second phase of the project of 300 sets of nitrogen/oxygen equipment in Shanghai factory to increase the R&D and production of nitrogen/oxygen control equipment.



# 1910

The company's main business was expanded to multiple fields:air compressors,nitrogen/oxygen air separation equipment,Integrated Electronic products,to the company's core products research and development of single-cylinder reciprocating air compressor technology and mass production.

# 2000

The company developed and produced the first dry oil-free screw air compressor into the market, and is widely used in the European medical, food and electronics industries.

### 2006

China's provincial capital cities to build a total of 26 after-sales service operation network,the full deployment of aftersales service system,rapid response and to protect the user's experience.

## 2018

The British BAE Group registered and established "Shanghai Geso systems industrial PLC" in China and set up a compressor assembly plant in Shanghai, China at the same time, with a registered capital of 11 million US dollars.

## 2022

Invested in the establishment of "Shanghai Geso Energy Equipment Co,Ltd." and in the country's provincial capitals of the original part of the office was registered as a branch to complete the production of Separate sales and realize the efficiency and convenience of national market development and service.

# **Certificates**

03







CE certfiate-MD



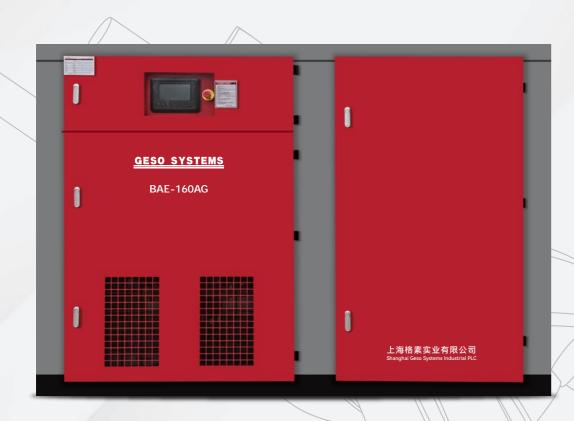
**CERTIFICATES** 



04

# **SINGLE-STAGE FIXED FREQUENCY** Screw Air Compressor

Exquisite design and manufacturing reduces the workload of routine.



#### **Product Features**

- Adopting 1:1 direct drive, low noise, low loss, more effective protection of the motor torque.
- New high-quality sound insulation materials and soundproof boxes to ensure that the working noise is within the ideal range, creating a quiet and comfortable working environment for users.
- Reduced transmission components, stable equipment performance, low maintenance costs.
- Compact design, simple and generous appearance, low space occupation.
- Removable air guide for easy maintenance.
- Intelligent control system for easy operation.

# **Core Technology**

## 01 Air Compressor Element

- Geso air compressor element selection of 40CrA high-quality alloy steel, with wear-resistant and corrosion-resistant and other high-quality performance.
- Adopting BAES rotor profile developed by BAE Group, the third generation 5:6 asym metric tooth rotor, balanced force during high-speed operation, rotor tangential speed≤35m/s, rotor clearance between the rotors to maintain 0.003INCH, the same power section compressor element can save energy 10-15%.
- CNC 5-axis rotor grinding machines are used for the production of Geso rotors, and the machining of polyhedra and curved surfaces is automated with high precision.

#### 02 Asynchronous Motors

- Motor stator using die-casting silicon steel plate, diecasting length in the motor of 20%-40%, significantly improve the performance of the motor.
- Motor windings with F-class insulation 155 °C,B-class temperature rise assessment, using IP55 or more protection level.
- Customized imported SKF bearings to reduce noise and heat.Ensure product reliability.

# 03 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend.
- Extremely fine fiber filter media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Achieve up to 99.99% filtration and keep dust on the surface rather than inside with very fine fiber technology, increasing life and reducing energy requirements.

#### 04 Control And Electrical Systems

- RS485 communication mode transmission communication,data can be collected to integrate the user's central console to monitor.
- the intelligent controller to calculate the dynamic adjustment of the control accuracy,to achieve accurate control of the torque.
- Cell phone,computer real-time display of operating parameters,maintenance remind ers,energy management, data analysis,etc.
- using Siemens/ABB and other brands of electrical systems.

# 05 Oil And Gas Separation System

- Customized enlargement coefficient of oil and gas barrels,to ensure that the pipeline pressure loss in the minimum degree Increase the space so that the equipment to play a good heat dissipation effect,stable operation of the equipment
- Imported filter material makes the oil content at the outlet of the compressor≤2PPM.











# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	1.3			
BAE-7A	7.5	1.0	1.0	865*570*825	G1/2	170
		1.3	0.9			
		0.8	1.8			
BAE-11A	11	1.0	1.6	1050*650*950	G3/4	270
		1.3	1.1			
		0.8	2.5			
BAE-15A	15	1.0	2.2	1050*650*950	G3/4	280
		1.3	1.8			
		0.8	2.9			
BAE-18A	18.5	1.0	2.7	1200*850*1100	G1	390
		1.3	2.3			
		0.8	3.9			
BAE-22A	22	1.0	3.2	1200*850*1100	G1	400
		1.3	3.1			
		0.8	5.4			
BAE-30A	30	1.0	4.3	1200*850*1100	G1 1/4	480
		1.3	3.8			
		0.8	6.6			
BAE-37A	37	1.0	6.2	1350*950*1225	G1 1/2	580
		1.3	5.6			
		0.8	8.0			
BAE-45A	45	1.0	6.8	1350*950*1225	G1 1/2	720
		1.3	5.9			
		0.8	10.5			
BAE-55A	55	1.0	8.9	1650*1170*1440	G2	1100
		1.3	7.7			

Note: A:Air-cooled W:Water-cooled

The Company Has The Right To Change The Design For The Continuous Improvement Of The Products, and The Parameters Will Be Changed Without Prior Notice.

# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-75A/W	75	1.0	12.5	1800*1200*1570	G2	1200
		1.3	9.8			
		0.8	16.5			
BAE-90A/W	90	1.0	13.0	1800*1200*1570	G2	1300
		1.3	12.5			
		0.8	21.0			
BAE-110A/W	110	1.0	17.0	2200*1400*1800	DN65	2200
		1.3	15.0			
		0.8	23.5			
BAE-132A/W	132	1.0	20.6	2200*1400*1800	DN65	2500
		1.3	16.5			
		0.8	29.7			
BAE-160A/W	160	1.0	25.5	2730*1710*1950	DN80	2950
		1.3	21.0			
		0.8	32.8			
BAE-185A/W	185	1.0	29.0	2730*1710*1950	DN80	3200
		1.3	25.0			
		0.8	34.5			
BAE-200A/W	200	1.0	32.5	2730*1710*1950	DN80	3400
		1.3	29.0			
		0.8	36.3			
BAE-220A/W	220	1.0	33.5	2970*1700*1900	DN80	4200
		1.3	29.8			
		0.8	44.5			
BAE-250A/W	250	1.0	36.5	3300*2150*2250	DN100	4400
		1.3	32.5			

Note: A:Air-cooled W:Water-cooled

# Single Stage

# **VARIABLE FREQUENCY** Air Compressor

#### **Product Features:**

01 Developed by UK based

exceeds national class 1, energy

BAE BAES Rotor Profile

Motor energy efficiency

efficiency class IE5

05 permanent magnet

Adopting IP65 oil cooled permanent magnet motor,no fan energy consumption,ultra high protection level

transfer coefficient and

Customized SKF bearings with a design life of over 50,000 hoursand ceramic plating for highpower motors

Permanent magnet motor model:38UH

Tubular water-cooled cooler with high external film heat strong anti pollution ability



Centrifugal cooling fan,using frequency conversion fan, to provide users with energy-saving and efficient cooling system

Geso independently designed air intake control combination valve, with air intake, tolerance, drain, stop check function

Aluminum plate-fin heat exchange air-cooled cooler, the material is corrosion-resistant aluminum alloy, the cooler material to add a special alloy material to ensure the hardness of the cooler, Geso customized cooler heat transfer efficiency is greater than the general cooler to 35%, ensure the normal use in the hot weather

# **Core Technology**

# 01 High Quality Air Compressor Element

- Geso air end selection of 40CrA high-quality alloy steel, with wearresistant and corrosion-resistant and other high-quality performance.
- Adoption of BAE Group R&D BAES rotor profile, using the third generation of 5:6 asymmetric tooth rotor, highspeed operation of balanced force, the rotor tangential speed of≤35m/s,rotor clearance to maintain the gap between 0.003INCH, the same power section of the element can be energy-saving 10-15%.
- The rotor adopts CNC 5-axis rotor grinding machine,polyhedral and curved surface machining realizes high precision automated production.



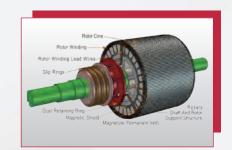
# 02 Intelligent Control System

- Data detection+visualization AI intelligent control: real-time data monitoring, comprehensive diagnostic reports, can be on multiple equipment joint control Al intelligent calculation, matching, so as to achieve cost reduction and increase efficiency
- Cell phones and computers can show the dynamic screen in real time,easy to operate, for users to create a digital, intelligent air compressor station room



# Permanent Magnet Synchronous Motor

- Due to the different characteristics of the voltage in China and in Europe, the technical staff of the Geso Group visited domestic high-end motor manufacturers that meet the Group's production requirements and standards.
- Ultra-low temperature rise design, the Air compressor element can operate stably under long-term low frequency, the permanent magnet is made of 38UH material, the maximum working temperature can reach 180C, IE5 energy efficiency grade, under the set pressure, the unit can be adjusted by frequency conversion to keep the pressure difference within 0. IMpa which makes the unit run more smoothly and more efficiently during the long-term use.





## 04 Oil and Gas Separation System

- Customized enlargement coefficient of oil and gas barrels, to ensure that the pipeline pressure loss in the minimum degree.
- Increase the space so that the equipment to play a good heat dissipation effect, stable operation of the equipment.
- Imported filter material makes the oil content at the outlet of the compressors ≤2PPM.



## 05 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend Extremely fine fiber filter.
- Media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Up to 99.99% filtration efficiency can be achieved, and the extremely fine fiber technology keeps dust on the surface rather than inside, increasing the life span and reducing the required energy consumption.



# 06 Frequency Converter

- Customized high-performance vector control inverter of Huichuan/ABB brand Customized inverter.
- Speed control can start at zero speed and adjust the acceleration curve evenly according to the user's needs.
- With the option of linear acceleration, S-shaped acceleration or automatic

Comparison of power saving effect between 75KW screw compressor and Geso high-efficiency frequency conversion screw compressor: (Based on an average of 8,000 hours of operation per year):

Screw Compressor	Screw Compressor With External Inverter	Ordinary Permanent Magnet Frequency Conversion Screw Air Compressor	Geso BAE permanent magnet frequency conversion screw air compressor
570,000 KW	480,000 KW	412,000KW	390,000KW

BAE High-efficiency Frequency Conversion Screw Air Compressor And General External Frequency Converter Air Compressor Compared To The Annual Electricity Savings:480,000kw-390,000kw=**90,000kw** 



# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	0.4-1.2			
BAE-7PM	7.5	.5 1.0 0.3-1.0 700*600*860	G1/2	180		
		1.3	0.2-0.8			
		0.8	0.7-1.9			
BAE-11PM	11	1.0	0.6-1.6	1000*750*1070	G3/4	300
		1.3	0.3-1.1			
		0.8	1.0-2.4			
BAE-15PM	BAE-15PM 15	1.0	0.9-2.1	1000*750*1070	G3/4	330
		1.3	0.7-1.8			
	3AE-22PM 22	0.8	1.8-3.8			430
BAE-22PM		1.0	1.5-3.2	1100*850*1110	G1	
		1.3	1.2-2.5			
		0.8	2.4-5.3			
BAE-30PM	30	1.0	2.0-4.4	1100*850*1110	G1	460
		1.3	1.9-3.5			
		0.8	3.4-6.8			
BAE-37PM	37	1.0	2.9-6.0	1200*970*1350	G11/2	610
		1.3	2.2-4.8			
		0.8	4.0-8.0			
BAE-45PM	45	1.0	3.5-7.5	1200*970*1350	G11/2	720
		1.3	3.0-6.5			
		0.8	5.0-10.5			
BAE-55PM	55	1.0	4.5-9.0	1500*1200*1550	G2	950
		1.3	3.6-7.8			
		0.8	7.0-13.5			
BAE-75PM	75	1.0	6.2-12.5	1500*1200*1550	G2"	970
		1.3	5.2-10.2			

Note: PM:Permanent Magnet Frequency Conversion

# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	6.6-16.5			
BAE-90PM	90	1.0	6.0-15.5	1800*1200*1570	G2"	1050
		1.3	5.5-13.8			
		0.8	9.0-21.5			
BAE-110PM	110	1.0	6.8-17.2	2200*1400*1800	DN65	1850
		1.3	5.5-15.5			
		0.8	9.6-23.6			
BAE-132PM	132	1.0	9.2-21.6	2200*1400*1800	DN65	1900
		1.3	6.7-17.5			
		0.8	12.0-29.8			
BAE-160PM	1 160	1.0	10.5-26.4	2730*1710*1950	DN80	2700
		1.3	9.0-22.0			
		0.8	13.5-33.2			
BAE-185PM	185	1.0	13.0-31.5	2730*1710*1950	DN80	3000
		1.3	11.0-26.5			
		0.8	13.8-34.5			
BAE-200PM	200	1.0	14.0-33.0	2730*1710*1950	DN80	3200
		1.3	12.0-27.8			
		0.8	16.3-36.3			
BAE-220PM	220	1.0	15.2-33.5	3250*2000*2100	DN100	3600
		1.3	14.5-29.8			
		0.8	18.0-44.0			
BAE-250PM	250	1.0	16.9-38.5	3250*2000*2100	DN100	4000
		1.3	13.0-34.0			
		0.8	19.0-46.8			
BAE-280PM	280	1.0	18.0-42.9	3250*2000*2100	DN100	4000
		1.3	15.0-36.0			

Note: PM: permanent Magnet Frequency Conversion

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# **Technical Parameter**

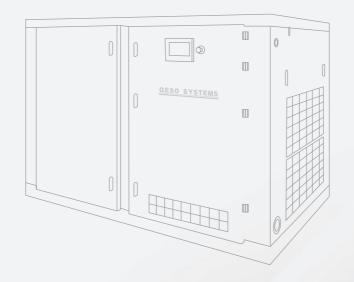
Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-15PMS	15	0.8-1.0	0.6-2.4	920*720*1025	G3/4	260
BAE-15PMS+	15	0.8-1.0	0.6-2.7	1100*690*915	G1"	300
BAE-22PMS	22	0.8-1.0	0.9-3.7	1200*850*1100	G1"	340
BAE-22PMS+	22	0.8-1.0	0.9-3.8	1150*1100*1300	G1 1/4"	370
BAE-37PMS	37	0.8-1.0	1.7-6.8	1350*950*1225	G1 1/2"	490
BAE-37PMS+	37	0.8-1.0	1.7-6.8	1300*1150*1500	G1 1/4"	740
BAE-55PMS	55	0.8-1.0	2.6-10.5	1650*1170*1440	G2"	920
BAE-55PMS+	55	0.8-1.0	2.6-10.5	1850*1350*1750	G2"	1050
BAE-75PMS	75	0.8-1.0	5.2-13.0	1800*1200*1570	G2"	980
BAE-75PMS+	75	0.8-1.0	5.2-13.0	1850*1350*1750	G2"	1450

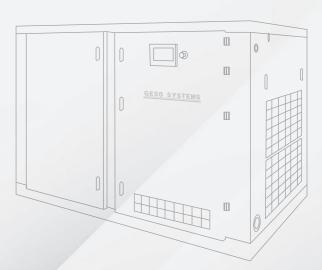
Note: PM: Permanent Magnet Frequency Conversion

S: Ultra Efficient And Energy-saving

+: Oil Cooling

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13

#### **TWO-STAGE FIXED**

# Frequency Rotary Screw Air Compressor



Geso two-stage compression mainframe adopts two sets of screw rotors of different sizes, and uses reasonable pressure distribution to reduce the compression ratio at each working time.

Low compression ratio,there are two advantages

Firstly,Reduce theinternal leakage of the air compressor and improve volumetrie efficiency



Secondly. it greatly reduces the load of bearings improves the life of bearings and prolongs the life of the host machine

#### Two-stage compression screw air compressor operation process:

#### Initial step

Nature's air enters through the air compressor air filter into the first stage rotor for compression,in the compression chamber with a small amount of lubricating oil,and at the same time the mixed gas is compressed to the pressure between the first stage.

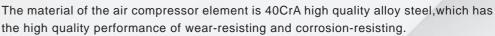


#### Second step

The compressed air enters the cold channel and comes into contact with a large amount of oil mist,thus greatly reducing its temperature and cooling it down ,After the compressed air then into the second stage rotor, It is compressed to the exhaust pressure and then discharged through the exhaust outlet to complete the whole compression process.

#### **DESCRIPTION**

### 01 Two Stage Air Compressor Element



Adopting BAES rotor profile developed by BAE Group, adopting the third generation

5:6 asymmetric tooth rotor, balanced at high speeds Force, rotor tangential speed≤35m / s, the gap between the rotor to maintain 0.003INCH, the same power section air end can save energy 10-15% Self-developed isothermal curve design, improve isometric compression performance, for different oil paths to achieve interstage cooling, improve the adiabatic efficiency; by reducing the compression ratio to reduce the amount of leakage, close to the isothermal compression, compared to the single-stage compression efficiency by 13-15%

#### 02 High-efficienc

YE3 energy efficiency grade motor stator using die-casting silicon steel plate, diecasting length in the motor of 20%-40%.

significantly improve motor performance, motor winding with F-class insulation 155 C, B-class temperature rise assessment using IP55 or more protection level. Customized SKF bearings to reduce noise and heat generation and ensure product reliability

# 03 High-efficiency Intake Valves

Self-designed air inlet control combination valve, with air inlet, tolerance adjustment, discharge, stop function, accurate flow rate calculation, to ensure that the air inlet pressure loss is small.

Load when power is gained, unload when power is lost, with a normally closed valve to prevent air from entering the air end during startup, and smooth low current startup.

The inlet valve is equipped with an inlet bypass valve to prevent a high degree of vacuum in the air end when the compressor is starting up and unloaded, which affects the atomization of lubricating oil.



#### **04 Smart Control Systems**

Data detection + visualization to reduce operating costs,Real-time data monitoring, comprehensive diagnostic reports,can be more than one device joint control. Realize Al intelligent calculation, matching, cell phones, computers can show the dynamic screen in real time.Simple operation, creating a digital, intelligent air compressor station for users.

Thus realizing cost reduction and efficiency increase

# 05 Cooling System

Customized aluminum plate-fin heat exchanger air-cooled cooler, corrosion-resistant aluminum alloy material, the cooler material to add special alloy materials to ensure the hardness of the cooler Customized tube water-cooled cooler, heat transfer efficiency is 35% higher than the general cooler, to ensure the user's normal use in high temperature weather, the outside of the tube outside the membrane heat transfer coefficient is high, anti-pollution capacity is strong Adopting centrifugal frequency conversion fan to provide users with energy-saving and efficient cooling system 15



15

# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-30A+	30	0.8	6.4	1500*950*1225	G1 1/2	800
BAE-37A+	37	0.8	8.5	1500*950*1225	G1 1/2	900
DAL-37A+	37	1.0	6.4	1500 750 1225	G1 1/2	700
		0.8	10.0			
BAE-45A+	45	1.0	7.9	1650*1170*1440	G2"	1200
		1.3	6.3			
		0.8	13.1			
BAE-55A+	55	1.0	10.4	1800*1200*1580	G2"	1500
		1.3	8.9			
		0.8	16.4			
BAE-75A+	75	1.0	13.7	1800*1200*1580	G2"	1600
		1.3	12.3			
		0.8	20.2			
BAE-90A+	90	1.0	17.5	2200*1400*1800	DN65	2200
		1.3	16.0			
		0.8	24.1			
BAE-110A+	110	1.0	19.9	2200*1400*1800	DN65	2300
		1.3	17.8			
		0.8	28.0			
BAE-132A+	A+ 132	1.0	24.0	2730*1710*1950	DN80	3200
		1.3	20.9			
		0.8	34.2			
BAE-160A+	160	1.0	30.7	2730*1710*1950	DN80	3500
		1.3	28.9			

Note:A: air-cooled +:two-stage compression

The Company Has The Right To Change The Design For The Continuous Improvement Of The Products, and The Parameters Will Be Changed Without Prior Notice.

# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	39.3			
BAE-185A+	185	1.0	34.7	3250*2000*2100	DN100	4800
		1.3	32.1			
		0.8	42.8			
BAE-200A+	200	1.0	40.6	3250*2000*2100	DN100	4900
		1.3	35.0			
		0.8	47.1			
BAE-220A+	BAE-220A+ 220	1.0	43.0	3250*2000*2100	DN100	5200
		1.3	37.5			
	250	0.8	52.8	3250*2000*2100	DN100	5500
BAE-250A+		1.0	48.1			
		1.3	43.0			
		0.8	58.1			
BAE-280A+	280	1.0	52.4	3770*2150*2250	DN125	6800
		1.3	48.0			
		0.8	66.2			
BAE-315A+	315	1.0	58.0	3800*2300*2300	DN125	7000
		1.3	50.8			
		0.8	73.2			
BAE-355A+	355A+ 355	1.0	65.4	3800*2300*2300	DN125	8500
		1.3	55.0			
		0.8	84.0			
BAE-400A+	400	1.0	72.0	3800*2300*2300	DN125	9000
		1.3	63.0			

Note:A: air-cooled +:two-stage compression

#### TWO-STAGE PERMANENT MAGNET

# Frequency Conversion Rotary Screw Air Compressor

#### **Product features**

## **Two-Stage Rotary Screw Air End**

- The material of the air compressor element is 40CRA high quality alloy steel, which has the high quality performance of wear-resisting and corrosion-resisting.
- Adopting the third generation of BAES 5:6 asymmetric tooth rotor profile developed by the Group, balanced force during high-speed operation, rotor tangential speed is 35m/s, rotor clearance between the rotors to maintain 0.003INCH, the same power section air end can save energy 10-15%
- CNC 5-axis rotor grinding machines are used in the production of Geso rotors, and the machining of polyhedra and curved surfaces is automated with high precision.
- Self-developed isothermal curve design, improve isometric compression performance, for different oil paths to achieve interstage cooling, improve



the adiabatic efficiency.through the reduction or compression ratio to reduce Leakage, near isothermal compression, 13-15% efficiency improvement over single stage compression.

# **Permanent Magnet Variable Frequency Motor**

- Due to the different voltage characteristics in China and Europe, Geso Group's technicians have examined and selected domestic high-end motor manufacturers that met the Group's production requirements and standards to customize their products.
- Ultra-low temperature rise design, air end can be stable operation in long-term lower frequency.permanent magnet selection of 38UH material, the highest working temperature up to 180 C, IE5 energy efficiency level, in the set pressure, the unit through frequency adjustment, to maintain the pressure difference within 0.1Mpa,in the long-term use of the process of smoother operation, more energy efficient!

# **Energy Saving With Dual Inverter**

- The motor and fan are controlled by frequency conversion regulation, thus making the oil temperature of the air end constant and the running speed lower, and enhancing the service life of the mainframe.
- Customized high-performance vector control frequency converter of Huichuan/ABB brand is used, the constant tempera ture of the unit is set at about 82°C, and the constant pressure accuracy is controlled at 0.01 MPA.
- Customized frequency conversion speed control can be started at zero speed and adjusted uniformly according to the user's needs.
- Linear acceleration, S-acceleration or automatic acceleration can be selected.

# **Cooling Fans**

- Adopting frequency conversion centrifugal cooling fan, the noise is much lower than axial fan. providing users with energy-saving and environmentally friendly high-efficiency cooling system.
- Unique design: Utilizing the high-speed impeller to accelerate, decelerate and change the flow direction of the gas to achieve the cooling effect.
- Intelligent frequency conversion design: it can adjust the speed by itself according to the temperature of the cooler to realize energy saving and emission reduction.

# **High Quality Filtration Systems**

- European standard customized oil/gas separator reduces exhaust gas oil content ≤ 2PPM and reduces differential pressure.
- The alr filter is made of cellulose synthetk mlxture, using the latest technology through the electrostatic spinning process to prepare very fine fiber media, which can achieve 0.2-0.3 micron continuous elasticity of synthetic fibers, the fliter media is uniform and the number of orifices is more than that of cellulose filter media, thus improving the fitration efficiency and dirt-holding capacity.
- The use of two-component fibers provides strong bonding capabilities, and the resin-free filter media developed by Geso offers lower resistance to fluids and a longer life.

# **High-efficiency Intake Valve**

- Self-designed air intake control valve combination, with air intake, capacity adjustment discharge, stopping The precise flow rate calculation ensures low pressure loss of air intake.
- Adopting normally closed type valve to prevent the air from entering the air end during startup low current startup smoothly.
- The valve is normally closed to prevent air from entering the air end during startup, and the low-current startup is smooth. The air inlet valve is equipped with an air inlet bypass valve to prevent the air compressor from entering the air end during startup and no-load. High vacuum inside the compressor prevents the lubricant from atomizing.

# **Intelligent Control - Remote Start-stop System**

- Data detection + wisualization to reduce operating costs
- Real-time data monitoring. comprehensive diagnostic reports, joint control of multiple devices, Al intelligent calculation and matching, thus realizing Reduce cost and increase efficiency
- Cell phones and computers can display dynamic images, easy to operate, and create a digital, intelli gent alr compressor station for users.



GESO SYSTEMS

上海格素实业有限公司



# **Technical Parameter**

	Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
İ	BAE-22FC+	22	0.8	1.5-4.7	1200*850*1100	G1	600
	DAL-22FC+	22	1.0	1.3-3.8	1200 830 1100	l Gi	800
			0.8	2.0-6.5			
	BAE-30FC+	30	1.0	1.8-6.0	1500*950*1225	G1 1/2	800
			1.3	1.6-5.1			
1			0.8	2.9-8.5			
	BAE-37FC+	37	1.0	2.5-7.3	1500*950*1225	G1 1/2	900
			1.3	2.2-6.7			
			0.8	3.3-10.4			
	BAE-45FC+	45	1.0	2.9-8.4	1650*1170*1440	G2"	1200
			1.3	2.2-6.6			
ĺ			0.8	4.0-13.2			
	BAE-55FC+	55	1.0	3.0-10.5	1800*1200*1580	G2"	1500
			1.3	2.5-8.8			
Ì			0.8	5.3-16.8			
	BAE-75FC+	75	1.0	3.7-13.9	1800*1200*1580	G2"	1600
			1.3	3.6-12.4			

Note: FC: Frequency Conversion +: Two-stage Compression

# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	6.0-20.2			
BAE-90FC+	90	1.0	5.1-17.3	2200*1400*1800	DN65	2200
		1.3	4.7-16.1			
		0.8	7.5-24.0			
BAE-110FC+	110	1.0	6.0-20.0	2200*1400*1800	DN65	2300
		1.3	5.9-17.8			
		0.8	9.1-28.2			
BAE-132FC+	132	1.0	8.5-24.6	2200*1400*1800	DN80	2350
		1.3	6.9-20.3			
		0.8	11.4-34.7			
BAE-160FC+	160	1.0	11.2-30.8	2730*1710*1950	DN80	3500
		1.3	9.2-28.7			
		0.8	13.5-39.5			
BAE-185FC+	185	1.0	11.7-35.1	3250*2000*2100	3250*2000*2100 DN100	4800
		1.3	10.2-32.5			
	200	0.8	14.8-43.1			
BAE-200FC+		1.0	13.0-40.5	3250*2000*2100	DN100	4900
		1.3	11.2-35.0			
		0.8	16.2-47.5			
BAE-220FC+	220	1.0	14.9-42.8	3250*2000*2100	DN100	5200
		1.3	13.2-37.7			
		0.8	19.0-53.5			
BAE-250FC+	250	1.0	15.2-48.5	3800*2314*2250	DN125	6900
		1.3	14.6-43.5			
		0.8	22.8-57.0			
BAE-280FC+	280	1.0	19.6-49	3800*2300*2300	DN125	6700
		1.3	18.8-47			
		0.8	24.8-62.0			
BAE-315FC+	315	1.0	21.6-54	3800*2300*2300	DN125	7000
		1.3	20.2-50.5			
		0.8	27.68-73			
BAE-355FC+	355	1.0	24-65	3800*2300*2300	DN125	8500
		1.3	21.92-54.8			
		0.8	32-84/8			
BAE-400FC+	400	1.0	27.2-73/10	3800*2300*2300	DN125	9000
		1.3	24.4-61/13			

Note: FC: Frequency Conversion +: Two-stage Compression

21

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Region:	Province:	Address:				
Northeast	Heilongjiang Province	Intersection of Republican Road and Shijiao Road, Hulan District, Harbin City,				
Region	Liaoning Province	113 Nanjing North Street, Heping District, Shenyang City, Liaoning Province				
	Shanghai					
	Zhejiang Province	No. 15, Lane 38, Caoli Road, Jinshan District, Shanghai				
	Jiangsu Province	Room 8609, 6th Floor, Building 3, JinJulong Building, No. 9 Gaohu Road, Jiangning District, Nanjing City, Jiangsu Province				
Eastern		Room 307, No. 58 Huyang Road, Hushuguan Town, Huqiu District, Suzhou City, Jiangsu Province				
China	Anhui Province	No.1 Heping Road, Development Zone, Chizhou City, Anhui Province				
	Shandong Province	1912, East Unit, Building 4, Lemeng Center, Huaiyin District, Jinan City, Shandong Province				
	Jiangxi Province	Guangzhou Road East China International Industrial Expo City, Qingyunpu District, Nanchang City, Jiangxi Province				
	Fujian Province	G324 National Highway Qianjin Xijing Yili, Houxi Town, Jimei District, Xiamen City, Fujian Province				
	Beijing					
	Tianjin	Poor 1904 Building 10 Junius International Poving District Bailing				
North	Shanxi Province	Room 1204, Building 10, Junyue International, Daxing District, Beijing				
China	Hebei Province					
	Inner Mongolia	Room 204, Unit 2, Building 11, Yurong Guandi, Shahe West Street, Jiuyuan District, Baotou City, Inner Mongolia Autonomous Region				
	Henan Province	No.39, 3rd Floor, Greenland Yuansheng International 3C, Jinshui District, Zhengzhou City, He Province				
Central China	Hubei Province	Room 1304, Unit 1, Building 16, Vision Cheng B, Jiangjun Road Street, Dongxihu District, W City, Hubei Province				
	Hunan Province	268 Wanjiali Road, Yuhua District, Changsha City, Hunan Province				
	Guangdong Province					
South China	Guangxi Province	Room 1504, Block B, Aoyuan Central Plaza, Jingang Avenue, Nansha District, Guangzhou City, Guangdong Province				
Orima	Taiwan Province	- Guangaong Frovince				
	Chongqing					
	Tibet	- 1801, Building 8, City Garden, Yubei District, Chongqing				
Southwest	Yunnan Province	Science and Technology Innovation Park, No. 3 Jingkai Road, Kunming Economic Development Zone				
of China	Guizhou Province	Building 2, Financial Street, Nanming District, Guiyang City, Guizhou Province				
	Sichuan Province	Building 9, Wanjingfeng Phase II, No. 8 Shangya Road, High tech West Zone, Chengdu City				
	Shanxi Province	Room 20707, Building 1, Lijun V, Fengcheng 1st Road and Weiyang Road, Weiyang District, Xi'an				
	Qinghai Province	City, Shaanxi Province				
	Willighan Frovince					
Northwest of China	Gansu Province	Inside the Yongding Center Market in Anding District, Dingxi City, Gansu Province				
Northwest of China		Inside the Yongding Center Market in Anding District, Dingxi City, Gansu Province  Building 4, South District of Helan Red River Valley, Yinchuan, Ningxia				

# **GESO SYSTEMS**

# **GESO SYSTEMS**

# Oil-injected Screw Air Compressor

Installed motor power 7.5-400 kw/10-530 hp





#### — Single stage rotary screw air compressor

- . Single stage fixed frequency rotary screw air compressor
- . Single stage Variable frequency rotary screw air compressor

#### Two stage rotary screw air compressor

- . Ultra efficient energy-saving variable frequency air compressor
- . Two stage fixed frequency rotary screw air compressor
- . Two stage permanent magnet variable frequency rotary screw air compressor

P05

P09



GESO SYSTEMS





P14

P15

P19



# **Company Profile**

#### Superior Quality and Intelligent Future

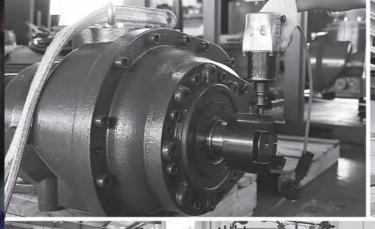
Geso is a global aerodynamic systems group of companies, wholly owned by BAE GESO SYSTEMS, headquartered in London, United Kingdom, and a leader in the European gases sector.

BAE Systems, the parent company of Geso Group, was founded in 1871 and is committed to the research, development and production of industrial gases. In 2002, BAE Systems set up a representative office in China, importing products from the United Kingdom to China and deploying after-sales service offices in China, and in 2018 BAE Systems established a wholly-owned company "Shanghai Geso systems Industrial PLC and invested 11 million U.S. dollars to build an intelligent production and manufacturing center. In



R&D,production and market expansion. Our products include energy-saving screw air compressors, nitrogen/oxygen generators, dry oil-free air compressors, water-injected oil-free air compressors, mobile air compressors, process gas compressors, medium and high pressure screw air ompressors, centrifugal air compressors, etc., which are widely used in various industrial production. The group has three companies, "Shanghai Geso systems Industry PLC", "Jiangsu Geso Equipment Co.Ltd.", "Shangahi Geso Energy Equipment Co.Ltd." more than 30 branches and offices and more than 200 distributors nationwide, providing high-quality intelligent and energy-saving air compressor system solutions for various industries energy-saving programs to reduce users cost of use to ensure users satisfaction and energy-saving effect. We have been selected as one of the top ten brands for three consecutive years by third-party organizations such as China Brand Network. As a global aerodynamic system.

GESO SYSTEMS









Inheriting the advanced technology and production management mode of BAE Systems and combining it with China's market demand in order to ensure the production safety of users, Geso Group strictly follows the product development process of the Group, and each new product undergoes 40 test items and 3,000 hours of durability test to ensure the quality of the products from the source. Selecting IE5 energy-saving motors, ABB electronic control system, and threestage frequengy conversion energy-saving system to reduce energy consumption and CO2 emissions, meanwhile, through the optimized design and lowering the speed of the machine, it saves the cost for the customers and realizes small investment and big power. Self-developed intelligent Internet of Things (IoT) technology realizes convenient interconnected management with air compressors through computers, cell phones and iPads to realize automatic and precise supply and meet the experience of unattended automation.

As a wholly foreign-owned enterprise, it is also the authorized production and assembly base of screw compressors for BAE Systems in UK. We have obtained 1SO9001 quality system certification, ISO45001 occupational health and safety management system certification, ISO14001 environmental management system certification, certificate 0 oil-free certification, EU CE certification, energy efficiency certification of air compressors, 3A integrity system certification and other certificates, which fully guarantee the safety of users.

Through years of high-speed development, Geso Group has service outlets in more than 200 cities across the country, 24-hour service hotline response and internet warranty service, and thirteen direct spare parts warehouses to provide customers with repair services in a more rapid and timely manner. After-sales service is not limited to the product itself, but also include compressed air system testing and optimization, air compressor intelligent air supply control, waste heat recovery, frequency conversion.energy-saving piping, cables, construction of turnkey projects and

a series of complete set of systematic services. Based on our service concept we promise lifelong We are exempt from labor charges, provide free training services for customers, regularly test the data of users' energy efficiency reports, and develop group of companies, we carry the mission of innovation, quality and service Whether it is energy saving and environmental protection or intelligent, always adhere to the praise of customer experience as the center of the hard working people. Geso, to build a globally recognized brand of fluid machinery, and continue to be the industry leader in high-end energysaving products.



# **Milestones**

#### 1871

The British head office was established as "BAE MARCONI ELETRONIC SYSTEMS",located in the United Kingdom.London,the same year the development and production of the first reciprocating compressor products,dedicated to the field of industrial gases research and development.

## 1999

Established "BAE GESO SYSTEMS LTD" and developed the first twinscrew air compressor.GESO SYSTEMS was established as a brand name for shrinking machines.2000 The company developed and produced the first dry Type oil-free screw air compressor into the market,which was widely used in European medical treatment, Food,electronics industry.

## 2002

BAE Group set up a representative office in China, products from the United Kingdom production after the original import of the whole machine equipment for the Chinese market. We have expanded and successfully entered the Chinese aerospace.



# 1910

The company's main business was expanded to multiple fields:air compressors,nitrogen/oxygen air separation equipment,Integrated Electronic products,to the company's core products research and development of single-cylinder reciprocating air compressor technology and mass production.

## 2000

The company developed and produced the first dry oil-free screw air compressor into the market, and is widely used in the European medical, food and electronics industries.

# **Certificates**



Certificate of Conformity

This is also be less that if we wan in transport programs of the designment of the conformity 


CE certfiate-EMC

CERT IND-PC-C2108017

CE certfiate-MD

# **GESO SYSTEMS**

# 2016

 $\Box$ 



Established a warehousing and logistics center in Shanghai, China,to ensure the timely supply of complete machines and spare parts for the Chinese market.

## 2021

Invested and established"Jiangsu Geso Equipment Co,Ltd."and set up a nitrogen/oxygen air separation equipment sales company in Suzhou,and in the same year,set up the second-phase annual output of 300 sets of nitrogen/oxygen equipment in the Shanghai factory,and set up the R&D and production of nitrogen/oxygen control and separation equipment.In the same year,we set up the second phase of the project of 300 sets of nitrogen/oxygen equipment in Shanghai factory to increase the R&D and production of nitrogen/oxygen control equipment.

## 2006

China's provincial capital cities to build a total of 26 after-sales service operation network,the full deployment of aftersales service system,rapid response and to protect the user's experience.

## 2018

The British BAE Group registered and established "Shanghai Geso systems industrial PLC" in China and set up a compressor assembly plant in Shanghai, China at the same time, with a registered capital of 11 million US dollars.

#### 2022

Invested in the establishment of "Shanghai Geso Energy Equipment Co,Ltd." and in the country's provincial capitals of the original part of the office was registered as a branch to complete the production of Separate sales and realize the efficiency and convenience of national market development and service.







CERTIFICATES

# SINGLE-STAGE FIXED FREQUENCY Screw Air Compressor

Exquisite design and manufacturing reduces the workload of routine.



#### **Product Features**

- Adopting 1:1 direct drive, low noise, low loss, more effective protection of the motor torque.
- New high-quality sound insulation materials and soundproof boxes to ensure that the working noise is within the ideal range, creating a quiet and comfortable working environment for users.
- Reduced transmission components, stable equipment performance, low maintenance costs.
- Compact design, simple and generous appearance, low space occupation.
- Removable air guide for easy maintenance.
- Intelligent control system for easy operation.

# **Core Technology**

## 01 Air Compressor Element

- Geso air compressor element selection of 40CrA high-quality alloy steel, with wear-resistant and corrosion-resistant and other high-quality performance.
- Adopting BAES rotor profile developed by BAE Group, the third generation 5:6 asym metric tooth rotor, balanced force during high-speed operation, rotor tangential speed≤35m/s, rotor clearance between the rotors to maintain 0.003INCH, the same power section compressor element can save energy 10-15%.
- CNC 5-axis rotor grinding machines are used for the production of Geso rotors, and the machining of polyhedra and curved surfaces is automated with high precision.

#### **02 Asynchronous Motors**

- Motor stator using die-casting silicon steel plate, diecasting length in the motor of 20%-40%, significantly improve the performance of the motor.
- Motor windings with F-class insulation 155 °C,B-class temperature rise assessment, using IP55 or more protection level.
- Customized imported SKF bearings to reduce noise and heat.Ensure product reliability.

## 03 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend.
- Extremely fine fiber filter media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Achieve up to 99.99% filtration and keep dust on the surface rather than inside with very fine fiber technology, increasing life and reducing energy requirements.

#### 04 Control And Electrical Systems

- RS485 communication mode transmission communication,data can be collected to integrate the user's central console to monitor.
- the intelligent controller to calculate the dynamic adjustment of the control accuracy,to achieve accurate control of the torque.
- Cell phone,computer real-time display of operating parameters,maintenance remind ers,energy management, data analysis,etc.
- using Siemens/ABB and other brands of electrical systems.

# 05 Oil And Gas Separation System

- Customized enlargement coefficient of oil and gas barrels,to ensure that the pipeline pressure loss in the minimum degree Increase the space so that the equipment to play a good heat dissipation effect,stable operation of the equipment
- Imported filter material makes the oil content at the outlet of the compressor≤2PPM.











# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	1.3			
BAE-7A	7.5	1.0	1.0	865*570*825	G1/2	170
		1.3	0.9			
		0.8	1.8			
BAE-11A	11	1.0	1.6	1050*650*950	G3/4	270
		1.3	1.1			
		0.8	2.5			
BAE-15A	15	1.0	2.2	1050*650*950	G3/4	280
		1.3	1.8			
		0.8	2.9			
BAE-18A	18.5	1.0	2.7	1200*850*1100	G1	390
		1.3	2.3			
		0.8	3.9	1200*850*1100		
BAE-22A	22	1.0	3.2		G1	400
		1.3	3.1			
		0.8	5.4		G1 1/4	
BAE-30A	30	1.0	4.3	1200*850*1100		480
		1.3	3.8			
		0.8	6.6			
BAE-37A	37	1.0	6.2	1350*950*1225	G1 1/2	580
		1.3	5.6			
		0.8	8.0			
BAE-45A	45	1.0	6.8	1350*950*1225	G1 1/2	720
		1.3	5.9			
		0.8	10.5			
BAE-55A	55	1.0	8.9	1650*1170*1440	G2	1100
		1.3	7.7			

Note: A:Air-cooled W:Water-cooled

# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-75A/W	75	1.0	12.5	1800*1200*1570	G2	1200
		1.3	9.8			
		0.8	16.5			
BAE-90A/W	90	1.0	13.0	1800*1200*1570	G2	1300
		1.3	12.5			
		0.8	21.0			
BAE-110A/W	110	1.0	17.0	2200*1400*1800	DN65	2200
		1.3	15.0			
	132	0.8	23.5	2200*1400*1800	DN65	
BAE-132A/W		1.0	20.6			2500
		1.3	16.5			
		0.8	29.7	2730*1710*1950		
BAE-160A/W	160	1.0	25.5		DN80	2950
		1.3	21.0			
		0.8	32.8	2730*1710*1950		
BAE-185A/W	185	1.0	29.0		DN80	3200
		1.3	25.0			
		0.8	34.5			
BAE-200A/W	200	1.0	32.5	2730*1710*1950	DN80	3400
		1.3	29.0			
		0.8	36.3			
BAE-220A/W	220	1.0	33.5	2970*1700*1900	DN80	4200
		1.3	29.8			
		0.8	44.5			
BAE-250A/W	250	1.0	36.5	3300*2150*2250	DN100	4400
		1.3	32.5			

Note: A:Air-cooled W:Water-cooled

# Single Stage VARIABLE FREQUENCY Air Compressor

#### **Product Features:**

Developed by UK based BAE BAES Rotor Profile

Oustomized SKF bearings with a design life of over 50,000 hoursand ceramic plating for highpower motors

Motor energy efficiency exceeds national class 1,energy efficiency class IE5

Permanent magnet motor permanent magnet model:38UH

Adopting IP65 oil cooled permanent magnet motor,no fan energy consumption,ultra high protection level

Tubular water-cooled cooler with high external film heat transfer coefficient and strong anti pollution ability



# **Core Technology**

# 01 High Quality Air Compressor Element

- Geso air end selection of 40CrA high-quality alloy steel, with wearresistant and corrosion-resistant and other high-quality performance.
- Adoption of BAE Group R&D BAES rotor profile, using the third generation of 5:6 asymmetric tooth rotor, highspeed operation of balanced force, the rotor tangential speed of≤35m/s, rotor clearance to maintain the gap between 0.003INCH, the same power section of the element can be energy-saving 10-15%.
- The rotor adopts CNC 5-axis rotor grinding machine,polyhedral and curved surface machining realizes high precision automated production.



# 02 Intelligent Control System

- Data detection+visualization AI intelligent control: real-time data monitoring, comprehensive diagnostic reports,can be on multiple equipment joint control AI intelligent calculation,matching,so as to achieve cost reduction and increase efficiency
- Cell phones and computers can show the dynamic screen in real time,easy to operate,for users to create a digital,intelligent air compressor station room



# **GESO SYSTEMS**



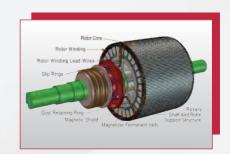
O7 Centrifugal cooling fan,using frequency conversion fan,to provide users with energy-saving and efficient cooling system

Geso independently designed air intake control combination valve, with air intake, tolerance, drain, stop check function

Aluminum plate-fin heat exchange air-cooled cooler, the material is corrosion-resistant aluminum alloy, the cooler material to add a special alloy material to ensure the hardness of the cooler, Geso customized cooler heat transfer efficiency is greater than the general cooler to 35%, ensure the normal use in the hot weather

# 03 Permanent Magnet Synchronous Motor

- Due to the different characteristics of the voltage in China and in Europe, the technical staff of the Geso Group visited domestic high-end motor manufacturers that meet the Group's production requirements and standards.
- Ultra-low temperature rise design, the Air compressor element can operate stably under long-term low frequency, the permanent magnet is made of 38UH material, the maximum working temperature can reach 180C, IE5 energy efficiency grade, under the set pressure, the unit can be adjusted by frequency conversion to keep the pressure difference within 0. IMpa which makes the unit run more smoothly and more efficiently during the long-term use.





## 04 Oil and Gas Separation System

- Customized enlargement coefficient of oil and gas barrels, to ensure that the pipeline pressure loss in the minimum degree.
- Increase the space so that the equipment to play a good heat dissipation effect, stable operation of the equipment.
- Imported filter material makes the oil content at the outlet of the compressors ≤2PPM.



# 05 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend Extremely fine fiber filter.
- Media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Up to 99.99% filtration efficiency can be achieved, and the extremely fine fiber technology keeps dust on the surface rather than inside, increasing the life span and reducing the required energy consumption.



# 06 Frequency Converter

- Customized high-performance vector control inverter of Huichuan/ABB brand Customized inverter.
- Speed control can start at zero speed and adjust the acceleration curve evenly according to the user's needs.
- With the option of linear acceleration, S-shaped acceleration or automatic acceleration.

Comparison of power saving effect between 75KW screw compressor and Geso high-efficiency frequency conversion screw compressor: (Based on an average of 8,000 hours of operation per year):

Screw Compressor	Screw Compressor With External Inverter	Ordinary Permanent Magnet Frequency Conversion Screw Air Compressor	Geso BAE permanent magnet frequency conversion screw air compressor
570,000 KW	480,000 KW	412,000KW	390,000KW

BAE High-efficiency Frequency Conversion Screw Air Compressor And General External Frequency Converter Air Compressor Compared To The Annual Electricity Savings:480,000kw-390,000kw=90,000kw



# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	0.4-1.2			
BAE-7PM	7.5	1.0	0.3-1.0	700*600*860	G1/2	180
		1.3	0.2-0.8			
		0.8	0.7-1.9			
BAE-11PM	11	1.0	0.6-1.6	1000*750*1070	G3/4	300
		1.3	0.3-1.1			
		0.8	1.0-2.4			
BAE-15PM	15	1.0	0.9-2.1	1000*750*1070	G3/4	330
		1.3	0.7-1.8			
		0.8	1.8-3.8			
BAE-22PM	22	1.0	1.5-3.2	1100*850*1110	G1	430
		1.3	1.2-2.5			
		0.8	2.4-5.3	1100*850*1110		460
BAE-30PM	30	1.0	2.0-4.4		G1	
		1.3	1.9-3.5			
		0.8	3.4-6.8	1200*970*1350	G11/2	610
BAE-37PM	37	1.0	2.9-6.0			
		1.3	2.2-4.8			
		0.8	4.0-8.0			
BAE-45PM	45	1.0	3.5-7.5	1200*970*1350	G11/2	720
		1.3	3.0-6.5			
		0.8	5.0-10.5			
BAE-55PM 55	55	1.0	4.5-9.0	1500*1200*1550	G2	950
		1.3	3.6-7.8			
		0.8	7.0-13.5		G2"	
BAE-75PM	75	1.0	6.2-12.5	1500*1200*1550		970
		1.3	5.2-10.2			

Note: PM:Permanent Magnet Frequency Conversion

# **Technical Parameter**

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	6.6-16.5			
BAE-90PM	90	1.0	6.0-15.5	1800*1200*1570	G2"	1050
		1.3	5.5-13.8			
		0.8	9.0-21.5			
BAE-110PM	110	1.0	6.8-17.2	2200*1400*1800	DN65	1850
		1.3	5.5-15.5			
		0.8	9.6-23.6			
BAE-132PM	132	1.0	9.2-21.6	2200*1400*1800	DN65	1900
		1.3	6.7-17.5			
		0.8	12.0-29.8			
BAE-160PM	160	1.0	10.5-26.4	2730*1710*1950	DN80	2700
		1.3	9.0-22.0			
		0.8	13.5-33.2			
BAE-185PM	185	1.0	13.0-31.5	2730*1710*1950	DN80	3000
		1.3	11.0-26.5			
		0.8	13.8-34.5			
BAE-200PM	200	1.0	14.0-33.0	2730*1710*1950	DN80	3200
		1.3	12.0-27.8			
		0.8	16.3-36.3			
BAE-220PM	220	1.0	15.2-33.5	3250*2000*2100	DN100	3600
		1.3	14.5-29.8			
		0.8	18.0-44.0			
BAE-250PM	250	1.0	16.9-38.5	3250*2000*2100	DN100	4000
		1.3	13.0-34.0			
		0.8	19.0-46.8			
BAE-280PM	280	1.0	18.0-42.9	3250*2000*2100	DN100	4000
		1.3	15.0-36.0			

Note: PM: permanent Magnet Frequency Conversion

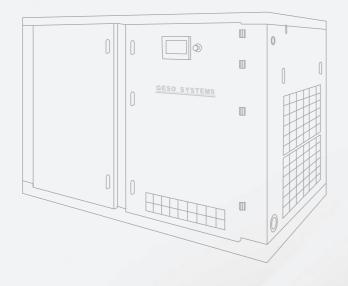
# **Technical Parameter**

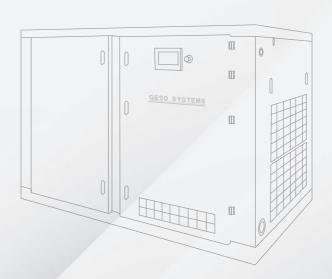
Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-15PMS	15	0.8-1.0	0.6-2.4	920*720*1025	G3/4	260
BAE-15PMS+	15	0.8-1.0	0.6-2.7	1100*690*915	G1"	300
BAE-22PMS	22	0.8-1.0	0.9-3.7	1200*850*1100	G1"	340
BAE-22PMS+	22	0.8-1.0	0.9-3.8	1150*1100*1300	G1 1/4"	370
BAE-37PMS	37	0.8-1.0	1.7-6.8	1350*950*1225	G1 1/2"	490
BAE-37PMS+	37	0.8-1.0	1.7-6.8	1300*1150*1500	G1 1/4"	740
BAE-55PMS	55	0.8-1.0	2.6-10.5	1650*1170*1440	G2"	920
BAE-55PMS+	55	0.8-1.0	2.6-10.5	1850*1350*1750	G2"	1050
BAE-75PMS	75	0.8-1.0	5.2-13.0	1800*1200*1570	G2"	980
BAE-75PMS+	75	0.8-1.0	5.2-13.0	1850*1350*1750	G2"	1450

Note: PM: Permanent Magnet Frequency Conversion

S: Ultra Efficient And Energy-saving

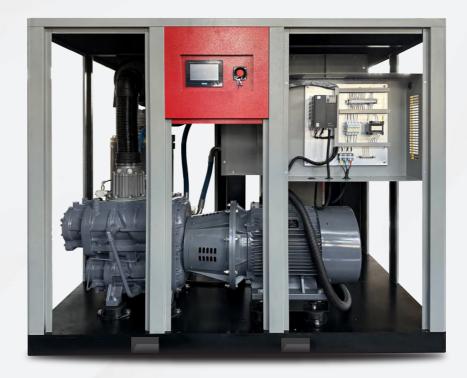
+: Oil Cooling





#### TWO-STAGE FIXED

# Frequency Rotary Screw Air Compressor



Geso two-stage compression mainframe adopts two sets of screw rotors of different sizes, and uses reasonable pressure distribution to reduce the compression ratio at each working time.

Low compression ratio,there are two advantages



Firstly,Reduce theinternal leakage of the air compressor and improve volumetrie efficiency



Secondly. it greatly reduces the load of bearings improves the life of bearings and prolongs the life of the host machine

Two-stage compression screw air compressor operation process:

#### **Initial step**

Nature's air enters through the air compressor air filter into the first stage rotor for compression,in the compression chamber with a small amount of lubricating oil,and at the same time the mixed gas is compressed to the pressure between the first stage.





#### Second step

The compressed air enters the cold channel and comes into contact with a large amount of oil mist,thus greatly reducing its temperature and cooling it down ,After the compressed air then into the second stage rotor, It is compressed to the exhaust pressure and then discharged through the exhaust outlet to complete the whole compression process.

#### DESCRIPTION

#### 01 Two Stage Air Compressor Element

The material of the air compressor element is 40CrA high quality alloy steel, which has the high quality performance of wear-resisting and corrosion-resisting.

Adopting BAES rotor profile developed by BAE Group, adopting the third generation

5:6 asymmetric tooth rotor, balanced at high speeds Force, rotor tangential speed≤35m / s, the gap between the rotor to maintain 0.003INCH, the same power section air end can save energy 10-15% Self-developed isothermal curve design, improve isometric compression performance, for different oil paths to achieve interstage cooling, improve the adiabatic efficiency; by reducing the compression ratio to reduce the amount of leakage, close to the isothermal compression, compared to the single-stage compression efficiency by 13-15%



#### 02 High-efficienc

YE3 energy efficiency grade motor stator using die-casting silicon steel plate, diecasting length in the motor of 20%-40%.

significantly improve motor performance, motor winding with F-class insulation 155 C, B-class temperature rise assessment using IP55 or more protection level. Customized SKF bearings to reduce noise and heat generation and ensure product reliability

## 03 High-efficiency Intake Valves

Self-designed air inlet control combination valve, with air inlet, tolerance adjustment, discharge, stop function, accurate flow rate calculation, to ensure that the air inlet pressure loss is small.

Load when power is gained, unload when power is lost, with a normally closed valve to prevent air from entering the air end during startup, and smooth low current startup.

The inlet valve is equipped with an inlet bypass valve to prevent a high degree of vacuum in the air end when the compressor is starting up and unloaded, which affects the atomization of lubricating oil.



#### **04 Smart Control Systems**

Data detection + visualization to reduce operating costs,Real-time data monitoring, comprehensive diagnostic reports,can be more than one device joint control. Realize Al intelligent calculation, matching, cell phones, computers can show the dynamic screen in real time. Simple operation, creating a digital, intelligent air compressor station for users.

Thus realizing cost reduction and efficiency increase

# 05 Cooling System

Customized aluminum plate-fin heat exchanger air-cooled cooler, corrosion-resistant aluminum alloy material, the cooler material to add special alloy materials to ensure the hardness of the cooler Customized tube water-cooled cooler, heat transfer efficiency is 35% higher than the general cooler, to ensure the user's normal use in high temperature weather, the outside of the tube outside the membrane heat transfer coefficient is high, anti-pollution capacity is strong Adopting centrifugal frequency conversion fan to provide users with energy-saving and efficient cooling system 15





# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-30A+	30	0.8	6.4	1500*950*1225	G1 1/2	800
BAE-37A+	37	0.8	8.5	1500*950*1225	G1 1/2	900
DAL-37A+	37	1.0	6.4	1500 950 1225	G1 1/2	700
		0.8	10.0			
BAE-45A+	45	1.0	7.9	1650*1170*1440	G2"	1200
		1.3	6.3			
		0.8	13.1			
BAE-55A+	55	1.0	10.4	1800*1200*1580	G2"	1500
		1.3	8.9			
		0.8	16.4	1800*1200*1580 -		1600
BAE-75A+	75	1.0	13.7		G2"	
		1.3	12.3			
		0.8	20.2	2200*1400*1800		2200
BAE-90A+	90	1.0	17.5		DN65	
		1.3	16.0			
		0.8	24.1			
BAE-110A+	110	1.0	19.9	2200*1400*1800	DN65	2300
		1.3	17.8			
		0.8	28.0			
BAE-132A+	132	1.0	24.0	2730*1710*1950	DN80	3200
		1.3	20.9			
		0.8	34.2			
BAE-160A+	160	1.0	30.7	2730*1710*1950	DN80	3500
		1.3	28.9			

Note:A: air-cooled +:two-stage compression

# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	39.3			
BAE-185A+	185	1.0	34.7	3250*2000*2100	DN100	4800
		1.3	32.1			
		0.8	42.8			
BAE-200A+	200	1.0	40.6	3250*2000*2100	DN100	4900
		1.3	35.0			
		0.8	47.5			
BAE-220A+	220	1.0	43.0	3250*2000*2100	DN100	5200
		1.3	37.5			
	250	0.8	52.8	3250*2000*2100		
BAE-250A+		1.0	48.1		DN100	5500
		1.3	43.0			
		0.8	58.1	3770*2150*2250		
BAE-280A+	280	1.0	52.4		DN125	6800
		1.3	48.0			
		0.8	66.2			
BAE-315A+	315	1.0	58.0	3800*2300*2300	DN125	7000
		1.3	50.8			
		0.8	73.2			
BAE-355A+	355	1.0	65.4	3800*2300*2300	DN125	8500
		1.3	55.0			
		0.8	84.0			
BAE-400A+	400	1.0	72.0	3800*2300*2300	DN125	9000
		1.3	63.0			

Note:A: air-cooled +:two-stage compression

#### TWO-STAGE PERMANENT MAGNET

# Frequency Conversion Rotary Screw Air Compressor

#### **Product features**

## **Two-Stage Rotary Screw Air End**

- The material of the air compressor element is 40CRA high quality alloy steel, which has the high quality performance of wear-resisting and corrosion-resisting.
- Adopting the third generation of BAES 5:6 asymmetric tooth rotor profile developed by the Group, balanced force during high-speed operation, rotor tangential speed is 35m/s, rotor clearance between the rotors to maintaln 0.003INCH, the same power section air end can save energy 10-15%
- CNC 5-axis rotor grinding machines are used in the production of Geso rotors, and the machining of polyhedra and curved surfaces is automated with high precision.
- Self-developed isothermal curve design, improve isometric compression performance,for different oil paths to achieve interstage cooling, improve



the adiabatic efficiency.through the reduction or compression ratio to reduce Leakage, near isothermal compression,13-15% efficiency improvement over single stage compression.

# **Permanent Magnet Variable Frequency Motor**

- Due to the different voltage characteristics in China and Europe, Geso Group's technicians have examined and selected domestic high-end motor manufacturers that met the Group's production requirements and standards to customize their products.
- Ultra-low temperature rise design, air end can be stable operation in long-term lower frequency.permanent magnet selection of 38UH material, the highest working temperature up to 180 C,
   IE5 energy efficiency level, in the set pressure, the unit through frequency adjustment, to maintain the pressure difference within 0.1Mpa,in the long-term use of the process of smoother operation, more energy efficient!

# **Energy Saving With Dual Inverter**

- The motor and fan are controlled by frequency conversion regulation, thus making the oil temperature of the air end constant and the running speed lower, and enhancing the service life of the mainframe.
- Customized high-performance vector control frequency converter of Huichuan/ABB brand is used, the constant tempera ture of the unit is set at about 82°C, and the constant pressure accuracy is controlled at 0.01 MPA.
- Customized frequency conversion speed control can be started at zero speed and adjusted uniformly according to the user's needs.
- Linear acceleration, S-acceleration or automatic acceleration can be selected.



# Cooling Fans

- Adopting frequency conversion centrifugal cooling fan, the noise is much lower than axial fan. providing users with energy-saving and environmentally friendly high-efficiency cooling system.
- Unique design: Utilizing the high-speed impeller to accelerate, decelerate and change the flow direction of the gas to achieve the cooling effect.
- Intelligent frequency conversion design: it can adjust the speed by itself according to the temperature of the cooler to realize energy saving and emission reduction.



# High Quality Filtration Systems

- European standard customized oil/gas separator reduces exhaust gas oil content ≤ 2PPM and reduces differential pressure.
- The alr filter is made of cellulose synthetk mlxture, using the latest technology through the electrostatic spinning process to prepare very fine fiber media, which can achieve 0.2-0.3 micron continuous elasticity of synthetic fibers, the fliter media is uniform and the number of orifices is more than that of cellulose filter media, thus improving the fitration efficiency and dirt-holding capacity.
- The use of two-component fibers provides strong bonding capabilities, and the resin-free filter media developed by Geso offers lower resistance to fluids and a longer life.

# High-efficiency Intake Valve

- Self-designed air intake control valve combination, with air intake, capacity adjustment discharge, stopping The precise flow rate calculation ensures low pressure loss of air intake.
- Adopting normally closed type valve to prevent the air from entering the air end during startup low current startup smoothly.
- The valve is normally closed to prevent air from entering the air end during startup, and the low-current startup is smooth. The air inlet valve is equipped with an air inlet bypass valve to prevent the air compressor from entering the air end during startup and no-load. High vacuum inside the compressor prevents the lubricant from atomizing.

# **Intelligent Control - Remote Start-stop System**

- Data detection + wisualization to reduce operating costs
- Real-time data monitoring. comprehensive diagnostic reports, joint control of multiple devices, Al intelligent calculation and matching. thus realizing Reduce cost and increase efficiency
- Cell phones and computers can display dynamic images, easy to operate, and create a digital, intelli gent alr compressor station for users.



# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-22FC+	22	0.8	1.5-4.7	1200*850*1100	G1	600
BAL-22FC+	22	1.0	1.3-3.8	1200 830 1100	G1	000
		0.8	2.0-6.5			
BAE-30FC+	30	1.0	1.8-6.0	1500*950*1225	G1 1/2	800
		1.3	1.6-5.1			
		0.8	2.9-8.5	1500*950*1225	G1 1/2	900
BAE-37FC+	37	1.0	2.5-7.3			
		1.3	2.2-6.7			
		0.8	3.3-10.4			
BAE-45FC+	45	1.0	2.9-8.4	1650*1170*1440	G2"	1200
		1.3	2.2-6.6	]		
		0.8	4.0-13.2			
BAE-55FC+	55	1.0	3.0-10.5	1800*1200*1580	G2"	1500
		1.3	2.5-8.8			
		0.8	5.3-16.8			
BAE-75FC+	75	1.0	3.7-13.9	1800*1200*1580	G2"	1600
		1.3	3.6-12.4			

Note: FC: Frequency Conversion +: Two-stage Compression

# **Technical Parameter**

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
		0.8	6.0-20.2			
BAE-90FC+	90	1.0	5.1-17.3	2200*1400*1800	DN65	2200
		1.3	4.7-16.1			
		0.8	7.5-24.0			
BAE-110FC+	110	1.0	6.0-20.0	2200*1400*1800	DN65	2300
		1.3	5.9-17.8			
		0.8	9.1-28.2			
BAE-132FC+	132	1.0	8.5-24.6	2200*1400*1800	DN80	2350
		1.3	6.9-20.3			
		0.8	11.4-34.7			
BAE-160FC+	160	1.0	11.2-30.8	2730*1710*1950	DN80	3500
		1.3	9.2-28.7			
		0.8	13.5-39.5	3250*2000*2100		4800
BAE-185FC+	185	1.0	11.7-35.1		DN100	
		1.3	10.2-32.5			
		0.8	14.8-43.1	3250*2000*2100		
BAE-200FC+	200	1.0	13.0-40.5		DN100	4900
		1.3	11.2-35.0			
		0.8	16.2-47.5	3250*2000*2100		5200
BAE-220FC+	220	1.0	14.9-42.8		DN100	
		1.3	13.2-37.7			
		0.8	19.0-53.5			6900
BAE-250FC+	250	1.0	15.2-48.5	3800*2314*2250	DN125	
		1.3	14.6-43.5			
		0.8	22.8-57.0			
BAE-280FC+	280	1.0	19.6-49	3800*2300*2300	DN125	6700
		1.3	18.8-47			
		0.8	24.8-62.0			
BAE-315FC+	315	1.0	21.6-54	3800*2300*2300	DN125	7000
		1.3	20.2-50.5			
		0.8	27.68-73			
BAE-355FC+	355	1.0	24-65	3800*2300*2300	DN125	8500
		1.3	21.92-54.8	1		
		0.8	32-84/8			
BAE-400FC+	400	1.0	27.2-73/10	3800*2300*2300	DN125	9000
		1.3	24.4-61/13			

Note: FC: Frequency Conversion +: Two-stage Compression